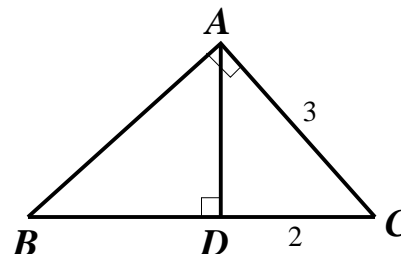


# Math 148: Assignment #15

Instructor: Sergei Chmutov

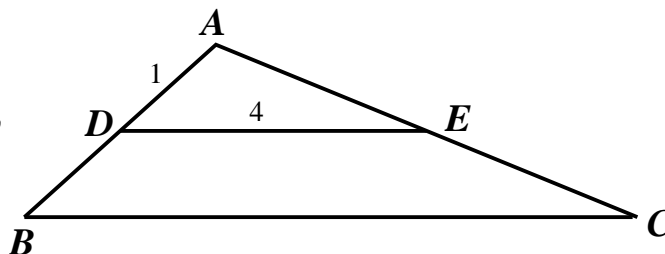
**HW #15**, Sec. 6.3, p.275: **1, 3, 7, 9**, and the following problems.

- A1.** In a triangle  $\triangle ABC$ ,  $\angle A = 90^\circ$ ,  $AD \perp BC$ ,  $DC = 2$ , and  $AC = 3$ . Find  $AB$ .



- A2.** For the same triangle as in the Problem **A1** find  $BC$ .

- A3.** In a triangle  $\triangle ABC$ ,  $DE \parallel BC$ ,  $AD = 1$ ,  $AB = 2$ , and  $DE = 4$ . Find  $BC$ .



- A4.** For the same triangle as in the Problem **A3** find the ratio  $AE/EC$ .